

REMARKS

In previous communications, the Examiner rejected claims 32-34 under 35 U.S.C. § 112, and rejected claims 1-34 under 35 U.S.C. § 103 in the Final Office Action mailed October 14, 2005. Applicants subsequently filed a Notice of Appeal on February 14, 2006. In this response, Applicants have amended the specification, amended claims 1, 9, 10, 12, 14-18, 20 and 29, cancelled claims 32-34, added new claims 35-42, and provided a supplemental IDS. Upon entry of the amendments, claims 1-31 and 35-42 will be pending in the application.

Rejection under 35 U.S.C. § 112

The Examiner rejected claims 32-34 under 35 U.S.C. § 112 as being indefinite. As Applicants have cancelled these claims, the rejection is moot.

Rejection under 35 U.S.C. § 103

The Examiner rejected claims 1-34 under 35 U.S.C. § 103 (a) as being unpatentable over U.S. Patent No. 4,901,221 to Kodosky et al., which is herein referred to as "Kodosky," in view of certain passages of "Object-Oriented Analysis and Simulation" by David R. C. Hill, which is herein referred to as "Hill." Applicants respectfully assert that the Kodosky and Hill references do not disclose or teach the claimed subject matter.

In the rejection of independent claims 1 and 20, the Examiner asserted that Kodosky teaches all of the recited features except "object-oriented code" and "converting the constructed logic into corresponding object-oriented code during a simulation without intervention of the simulator user." *See* Office Action, pages 4-7. In an attempt to cure these deficiencies, the Examiner asserted that these features are either functionally equivalent or known in the art by certain passages in Hill. *See id.* However, the cited references, alone or in combination, fail to disclose all of the recited features in each of the independent claims, as discussed below. Further, the Examiner does not appear to assert any specific passages of the Kodosky and Hill references against the subject matter of claims 14 and 29. Hence, the cited references cannot render the claimed subject matter obvious.

As noted in the previous response filed December 14, 2005, Kodosky and Hill fail to disclose all of the recited features. For instance, the references fail to disclose *object-oriented software configured to* "convert the constructed logic into corresponding object-oriented code during a simulation without intervention of the simulator user," as recited in claim 1, and "automatically converting the logic into corresponding object-oriented code," as recited in claim 20. Further, the references fail to disclose *object-oriented software configured to* "integrate the object-oriented code with the main simulation system which comprises a simulation data model and simulation algorithms, resulting in an integrated simulation system without intervention of the simulator user," as recited in claim 1, and "integrating the object-oriented code with the main simulation system which comprises a simulation data model and simulation algorithms, resulting in an integrated simulation system for simulating the physical system," as recited in claim 20. Hence, the cited references cannot render the subject matter of claims 1 and 20 or their respective dependent claims obvious.

Accordingly, Applicants respectfully submit that the Kodosky and Hill references cannot support a *prima facie* case of obviousness. Therefore, Applicants respectfully request that the Examiner withdraw the rejection and allow the pending claims 1-31.

Amendments to the Claims

In the present response, Applicants have amended the claims to clarify certain terms. For instance, the Examiner indicated that certain claims are unclear in the Final Office Action. In particular, the Examiner cited to specific words, such as the term "capable" in claims 9, 10, 14, 18 and 29. Further, Applicants have amended claims 1, 9, 10, 12, 14-18, 20 and 29 to clarify certain recitations and correct certain typographical errors. Specifically, in claims 1 and 20, Applicants have clarified the logic with the addition of the phrase "transport phenomena through a model of the physical system." As these amendments merely clarify the claimed subject matter, they do not add any new matter. Accordingly, Applicants respectfully request entry of the amendments.

Supplemental Information Disclosure Statement

Applicants have included a supplemental Information Disclosure Statement that includes references submitted in the co-pending U.S. Patent Application Serial No. 10/016,619. Accordingly, Applicants respectfully request the Examiner consider the references cited in the Information Disclosure Statement.

New Claims 35-42

New claims 35-42 have been added in this response. Of these claims, only claim 35 is independent. The claim 35 includes recitations that are similar to some of the recitations in claims 1 and 20. However, the recitations of claims 35-42 have been crafted to focus more on other aspects described in the specification. *See e.g.* Application; Figs. 2-7; page 7, line 20 to page 36, line 5. Accordingly, as claims 35-42 are clearly supported by the specification, these claims are believed to be patentable at least for the reasons set forth above with respect to claims 1 and 20.

Fees

With regard to the claims and RCE, Applicants have cancelled one independent claim and two dependent claims in this response. Further, the Applicants have added one independent claim along with eight dependent claims. Accordingly, a fee of \$300 is believed to be required for the additional claims along with the fee of \$790 for the RCE. Accordingly, the Commissioner is authorized to charge the appropriate fees for the RCE and additional claims to the Deposit Account No. 05-1328. If this amount is in error or additional fees are required, the Commissioner is authorized to charge the appropriate fees to the deposit account noted above.

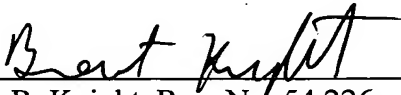
In addition, this is in response to the Notice of Appeal mailed on February 14, 2006. Applicants hereby request a one month extension in the statutory period from April 14, 2006 to May 14, 2006 in accordance with 37 C.F.R. § 1.136. The Examiner is hereby authorized to charge the Deposit Account No. 05-1328 for the fee associated with this extension of time.

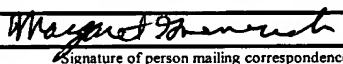
Conclusion

In view of the remarks and amendments set forth above, Applicants respectfully request allowance of the pending claims. If the Examiner believes that a telephonic interview will help speed this application toward issuance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,

Date: May 10, 2006


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<div style="border: 1px solid black; padding: 2px;">Margaret Gnewuch</div> <div style="border: 1px solid black; padding: 2px;">Typed or printed name of person mailing correspondence</div>	<div style="border: 1px solid black; padding: 2px;">N/A</div> <div style="border: 1px solid black; padding: 2px;">Express Mail mailing number</div>
<div style="border: 1px solid black; padding: 2px;"></div> <div style="border: 1px solid black; padding: 2px;">Signature of person mailing correspondence</div>	<div style="border: 1px solid black; padding: 2px;">May 10, 2006</div> <div style="border: 1px solid black; padding: 2px;">Date of Deposit</div>